WHAT IS CLAIMED IS:

- 1. An isolated and purified DNA molecule comprising at least one DNA segment, a biologically active subunit or variant thereof, of a circular intermediate of adeno-associated virus, which DNA segment confers increased episomal stability, persistence or abundance of the isolated DNA molecule in a host cell.
- 2. The DNA molecule of claim 1 in which the DNA segment comprises at least a portion of a 5' inverted terminal repeat of adeno-associated virus.
- 3. The DNA molecule of claim 1 in which the DNA segment comprises at least a portion of a 3'-inverted terminal repeat of ageno-associated virus.
- 4. The DNA molecule of claim 1 which further comprises a marker or selectable gene.
- 5. A plasmid comprising the DNA molecule of claim 1.
- 6. A gene transfer vector, comprising:
- a) at least one first/DNA segment, a biologically active subunit or variant thereof, of a circular intermediate of adeno-associated virus, which DNA segment confers increased episomal stability or integration of the vector in a host cell; and
 - b) a second/DNA segment comprising a gene.
- 7. The vector of claim 6 in which the first DNA segment comprises at least about 550 bp of adeno-associated virus sequence.

- 8. The vector of claim 6 in which the first DNA segment comprises at least about 400 bp of adeno-associated virus sequence.
- 9. A therapeutic gene transfer vector, comprising:
- a) at least one first DNA segment, a biologically active subunit or variant thereof, of a circular intermediate of adeno-associated virus, which DNA segment confers increased episomal stability or integration of the vector in a host cell; and
- b) a second DNA segment comprising a gene encoding a therapeutically effective polypeptide.
- 10. A method of delivering a gene to a cell comprising: contacting the cell with the vector of claim 6 or 9.
- 11. A composition for delivering a gene to a cell, comprising: the vector of claim 6 or 9 and a delivery vehicle.
- 12. The composition of claim 11 wherein the delivery vehicle is a pharmaceutically acceptable carrier.
- 13. The composition of claim 11 wherein the delivery vehicle is a liposome.
- 14. The DNA molecule of claim 1 which comprises concatamers of the circular intermediate.
- 15. The DNA molecule of claim 1 in which the stability, persistence or abundance of the DNA in cells is enhanced by a DNA binding protein.

- 16. The DNA molecule of claim 15 wherein the DNA binding protein is adenovirus E2a.
- 17. A host cell comprising the vector of claim 6 or 9.
- 18. A host cell comprising the DNA molecule of claim 1.
- 19. An animal comprising the vector of claim or 9.
- 20. The animal of claim 19 which is not a human.
- 21. A method of expressing a gene product in the muscle tissue of an animal, which comprises: administering the vector of claim 6 or 9 to the muscle tissue of said animal in an amount effective to express the gene.
- 22. The method of claim 21 wherein the vector is administered dissolved or suspended in a liquid pharmaceutically acceptable carrier.
- 23. The method of claim 22 wherein said liquid carrier comprises an aqueous solution.
- 24. The method of claim 21 wherein said gene comprises a DNA segment encoding a protein/operably linked to a promoter operable in said muscle tissue.
- 25. The method of claim 21 wherein said administering is by intramuscular injection.
- 26. The method of claim 21 wherein said administering is by transdermal transport.

- 27. The method of claim 21 wherein said animal is a bird or mammal.
- 28. The method of claim 1 wherein said animal is a human
- 29. A method of expressing a gene in a eukaryotic cell, comprising:
- a) transfecting a eukaryotic host cell susceptible to adenovirus infection with the vector of claim 6 or 9 and a recombinant adenovirus helper vector so as to form packaged viral particles; and
- b) infecting a eukaryotic host cell with the viral particles in an amount effective to detect expression of the gene.
- 30. A composition comprising:
 - a) a first adeno-associated virus yector comprising linked:
 - i) a first DNA segment comprising a 5'-inverted terminal repeat of adeno-associated virus;
 - ii) a second DNA segment comprising at least a portion of an open reading frame operably linked to a promoter, wherein the DNA segment does not comprise the entire open reading frame;
 - iii) a third DNA segment comprising a splice donor site; and
 - iv) a fourth DNA segment comprising a 3'-inverted terminal repeat of adeno-associated virus; and
 - b) a second adeno-associated virus vector comprising linked:
 - i) a first DNA segment comprising a 5'-inverted terminal repeat of adeno-associated virus;
 - ii) a second DNA segment comprising a splice acceptor site;
 - iii) a third DNA segment comprising at least a portion of an open reading frame which together with the DNA segment

of (a)(ii) encodes a full-length polypeptide; and

- iv) a fourth DNA segment comprising a 3'-inverted terminal repeat of adeno-associated virus.
- 31. The composition of claim 30 further comprising a delivery vehicle.
- 32. A method to transfer and express a polypeptide in a host cell comprising contacting the host cell with the composition of claim 30.
- 33. A method to transfer and express a polypeptide in a host cell comprising contacting the host cell with a first adeno-associated virus vector comprising linked:
 - i) a first DNA segment comprising a 5'-inverted terminal repeat of adeno-associated virus;
 - ii) a second DNA segment comprising at least a portion of an open reading frame operably linked to a promoter, wherein the DNA segment does not comprise the entire open reading frame;
 - iii) a third DNA segment comprising a splice donor site; and
 - iv) a fourth DNA segment comprising a 3'-inverted terminal repeat of adeno-associated virus.
- 34. The method of claim 33 wherein the host cell is further contacted with a second adeno-associated virus vector comprising linked:
 - i) a first/DNA segment comprising a 5'-inverted terminal repeat of adeno-associated virus;
 - ii) a second DNA segment comprising a splice acceptor site;

- iii) a third DNA segment comprising at least a portion of an open reading frame which together with the DNA segment of (a)(ii) encodes a full-length polypeptide; and
- iv) a fourth DNA segment comprising a/3'-inverted terminal repeat of adeno-associated virus.
- 35. The method of claim 32 or 33 wherein the host cell is a lung epithelial cell, a muscle cell or a neuron.
- 36. The method of claim 32 or 34 wherein the polypeptide is the CFTR polypeptide.
- 37. A method of expressing a gene product in the muscle tissue of an animal, comprising contacting the muscle tissue with the composition of claim 30 in an amount effective to express the polypeptide.
- 38. A method of expressing a gene product in the airway epithelia of an animal, comprising contacting the airway epithelia with the composition of claim 30 in an amount effective to express the polypeptide.
- 39. A method of expressing a gene product in the neurons of an animal, comprising contacting the neurons with the composition of claim 30 in an amount effective to express the polypeptide.

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